Maurice Green

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Professional Summary

Results-driven DevOps Engineer with 10+ years of experience designing resilient infrastructure, optimizing CI/CD pipelines, and automating cloud deployments across GCP, AWS, and Azure. Proven success in managing Kubernetes clusters, implementing site reliability practices, and building custom tooling with Python, Terraform, and eBPF. Trusted technical lead with a track record of reducing outages and accelerating deployment velocity in production environments.

Education

University of Tennessee, Knoxville   Knoxville, TN
Master of Science (M.S.), Computer Science. 3.70   2024
Research Project: "Exposed Buffer Architecture: Network Data Transmission Protocol Design for HPC"

Eastern Illinois University   Charleston, IL
Bachelor of Science (B.S.), Management Information Systems   2014

Experience

Informa TechTarget   **Washington, DC (Remote)**
DevOps Engineer   April 2023 – Present
- Designed and administered production-grade Kubernetes clusters in Google Cloud (GKE), optimizing resource allocation and autoscaling and reducing cloud storage costs by 30% per quarter.
- Define and implement SLAs/SLOs for hybrid infrastructure, enhancing service reliability and operational transparency.
- Optimized GitLab CI/CD pipelines to support rapid, safe deployments. Successfully reduced production deployment time by 60%. Standardized deployment pipeline and approval process, reducing bug propagation and deployment-related service disruption to satisfy SLA goals.
- Developed Terraform IaC repositories to import and maintain Kubernetes, Cloudflare, and Google Cloud infrastructure.
- Developed performance analysis tools in C using eBPF to diagnose system performance bottlenecks at the operating system and container level.

Edward Jones   **Remote**
Site Reliability Engineer   July 2022 – April 2023
- Developed observability strategies using Dynatrace, Azure Monitor, and Prometheus to capture real-time performance metrics.
- Developed and advised on a plan to decouple complex system integrations to eliminate system and application bottlenecks. Led a multi-team effort to implement this plan, leading to 37% reduction in service outages.
- Administered Azure Kubernetes Service (AKS) clusters and optimized team deployments for resource consumption, using multi- (shared) and single-tenant node design.
- Created a Kubernetes storage solution to implement per-deployment ephemeral and persistent storage solutions, which reduced cloud storage costs by 19%.

Peak6 Capital Management   **Austin, TX (Hybrid)**
Systems Engineer   October 2021 – July 2022
- Deployed and managed high-availability services across multi-site Kubernetes clusters to support the 99% internal SLA requirement.
- Developed a Python tool to discover and generate a report listing resources underutilized allocated memory, in both VMware and Kubernetes environments, using telemetry data and available APIs. This work significantly reduced resource constraints in the Kubernetes cluster.

- Architected Kubernetes networking scheme using MetalLB and Istio manage traffic to the on-premises Kubernetes cluster.

Axxess   **Dallas, TX (Remote)**
Infrastructure Engineer   February 2021 – July 2021
- Spearheaded project to transition the entire infrastructure from data center to Google Cloud.
- Built containerized solutions for each application in collaboration with the development team.
- Designed and built Kubernetes cluster in Google Cloud (GKE) for app deployment, utilizing decoupled services to promote high availability.
- Developed Google Cloud Functions solution to increase the scalability of the Pub/Sub architecture.

Apex Fintech Solutions   **Dallas, TX (on-site)**
Systems Engineer   May 2019 – December 2019
- Developed a secure Django-based credential and Permissions validation system for internal development operations.
- Automated infrastructure deployments in AWS using CloudFormation.

Systemware, Inc.   **Addison, TX (on-site)**
Systems Engineer   July 2017 – January 2019

Secureworks   **Lisle, IL (on-site)**
Sr. Security Analyst   February 2015 – March 2017

Skills
Programming Languages: Python, C/C++, Assembly (x86, ARM)
Cloud & Infrastructure: Kubernetes, Terraform, Google Cloud (GCP), AWS, CI/CD (GitLab, Jenkins)